## SEQUENCE LISTING

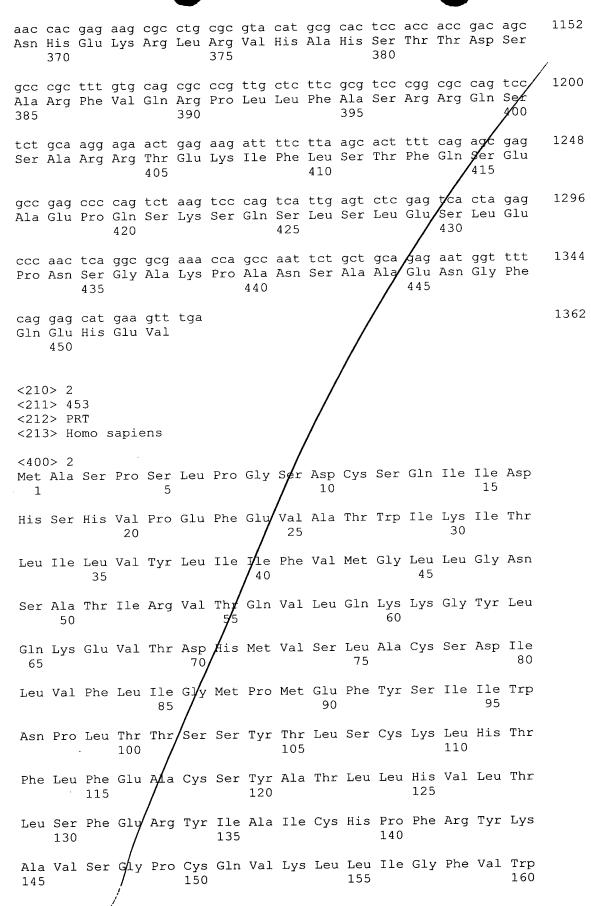
<110> Katherine Galvin and Laura A. Rudolph-Owen

<120> COMPOSITIONS AND METHODS FOR THE TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE USING GPCR 4941 AS A TARGET

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cac agt cat gtc His Ser His Val 20	ccc gag Pro Glu	ttt Phe	gag Glu	gtg Val 25	gcc Ala	acc Thr	tgg Trp	atc Ile	aaa Lys 30	atc Ile	acc Thr	96		
ctt att ctg gtg Leu Ile Leu Val 35	tac ctg Tyr Leu	atc Ile	atc Ile 40	ttc Phe	gtg Val	atg Met	ggc Gly	ctt Leu 45	ctg Leu	ggg Gly	aac Asn	144		
agc gcc acc att Ser Ala Thr Ile 50	cgg gtd Arg Val	acc Thr 55	cag Gln	gtg Val	ctg Leu	cag Gln	aag Lys 60	aaa Lys	gga Gly	tac Tyr	ttg Leu	192		
cag aag gag gtg Gln Lys Glu Val 65	aca gac Thr Asp	His	atg Met	gtg Val	agt Ser	ttg Leu 75	gct Ala	tgc Cys	tcg Ser	gac Asp	atc Ile 80	240		
ttg gtg ttc ctc Leu Val Phe Leu	c atc ggc i tle Gly 85	atg Met	ccc Pro	atg Met	gag Glu 90	ttc Phe	tac Tyr	agc Ser	atc Ile	atc Ile 95	пp	288		
aat ccc ctg acc Asn Pro Leu Thi	Thr Ser	agc Ser	tac Tyr	acc Thr 105	Leu	tcc Ser	tgc Cys	aag Lys	ctg Leu 110	HlS	act Thr	336		
ttc ctc ttc gag Phe Leu Phe Glu 115	g gcc tgc ı Ala Cys	agc Ser	tac Tyr 120	Ala	acg Thr	ctg Leu	ctg Leu	cac His 125	Val	ctg Leu	aca Thr	384		

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ctc Leu	agc Ser 130	ttt Phe	gag Glu	cgc Arg	tac Tyr	atc Ile 135	gcc Ala	atc Ile	tgt Cys	cac His	ccc Pro 140	ttc Phe	agg Arg	tac Tyr	aag Lys	432
gct Ala 145	gtg Val	tcg Ser	gga Gly	cct Pro	tgc Cys 150	cag Gln	gtg Val	aag Lys	ctg Leu	ctg Leu 155	att Ile	ggc Gly	ttc Phe	gtc Val	rgg Trp 160	480
gtc Val	acc Thr	tcc Ser	gcc Ala	ctg Leu 165	gtg Val	gca Ala	ctg Leu	ccc Pro	ttg Leu 170	ctg Leu	ttt Phe	gcc Ala	atg Met	ggt Gly 175	act Thr	528
gag Glu	tac Tyr	ccc Pro	ctg Leu 180	gtg Val	aac Asn	gtg Val	ccc Pro	agc Ser 185	cac His	cgg Arg	ggt Gly	ctc Leu	act Thr 190	tgc Cys	aac Asn	576
cgc Arg	tcc Ser	agc Ser 195	acc Thr	cgc Arg	cac His	cac His	gag Glu 200	cag Gln	ccc Pro	gag Glu	agc Thr	tcc Ser 205	aat Asn	atg Met	tcc Ser	624
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gag Glu	agc Ser	agg Arg 275	g Thr	gcc Ala	agg Arg	agg Arg	cag Gln 280	Thr	ato	ato :Ile	ttc Phe	ctg Leu 285	agg Arg	ctg Leu	att Ile	864
gtt Val	gtg Val 290	Thr	ttg Lev	g gcc 1 Ala	gta Val	. tgc . Cys 195	Trp	ato Met	g ccc Pro	aac Asr	c cag n Glr 300	тте	cgg Arg	agg Arg	atc Ile	912
ato Met 305	: Ala	gco	g gco a Ala	c aaa a Lys	ccc Pro 310	Lys	cac His	gad Asp	c tgg	g aco Thi 315	r Arc	g tcc g Ser	tac Tyr	ttc Phe	cgg Arg 320	960
gco Ala	g tac a Tyr	ato Met	g ato	c cto e Leu 325	ı/Leı	c cco	tto Phe	c tco e Sei	g gaq r Glu 330	ı Thi	g ttt r Phe	t tto e Phe	tac Tyr	cto Lev 335	agc Ser	1008
t co Sei	g gto r Val	ato Ile	c aad e Asi 340	n P/co	/ g cto b Lei	c cto 1 Lei	g tad 1 Tyl	c acc c Th:	r Val	g tco l Se:	c tog r Sei	g caq r Glr	g cag Gln 350	ı Phe	cgg Arg	1056
cg( Ar	g gto g Val	g tt L Ph	e Va	g/caq 1 Gl:	g gto n Val	g cto l Le	g tgo ı Cy: 360	з Су	c cg s Ar	c cte g Le	g to u Se:	g cto r Lei 365	ı G1r	g cad n His	e gcc s Ala	1104



Val Thr Ser Ala Leu Val Ala Leu Pro Leu Leu Phe Ala Met Gly Thr 165 170 Glu Tyr Pro Leu Val Asn Val Pro Ser His Arg Gly Leu Thr Cys Asn Arg Ser Ser Thr Arg His His Glu Gln Pro Glu Thr Ser Asn Met Ser Ile Cys Thr Asn Leu Ser Ser Arg Trp Thr Val Phe Gln Ser Ser Ile 215 Phe Gly Ala Phe Val Val Tyr Leu Val Val Leu Leu Sex Val Ala Phe Met Cys Trp Asn Met Met Gln Val Leu Met Lys Ser Gln Lys Gly Ser 250 245 Leu Ala Gly Gly Thr Arg Pro Pro Gln Leu Arg/Lys Ser Glu Ser Glu 265 Glu Ser Arg Thr Ala Arg Arg Gln Thr Ile/Ile Phe Leu Arg Leu Ile Val Val Thr Leu Ala Val Cys Trp Met /ro Asn Gln Ile Arg Arg Ile Met Ala Ala Ala Lys Pro Lys His A∮p Trp Thr Arg Ser Tyr Phe Arg 315 Ala Tyr Met Ile Leu Leu Pro Phe Ser Glu Thr Phe Phe Tyr Leu Ser 330 Ser Val Ile Asn Pro Leu Leu fyr Thr Val Ser Ser Gln Gln Phe Arg 345 Arg Val Phe Val Gln Val Leu Cys Cys Arg Leu Ser Leu Gln His Ala 360 Asn His Glu Lys Arg Leu Arg Val His Ala His Ser Thr Thr Asp Ser 375 Ala Arg Phe Val Gln Arg Pro Leu Leu Phe Ala Ser Arg Arg Gln Ser 395 Ser Ala Arg Arg Th $\not$ t Glu Lys Ile Phe Leu Ser Thr Phe Gln Ser Glu Ala Glu Pro Gln Ser Lys Ser Gln Ser Leu Ser Leu Glu Ser Leu Glu 425 Pro Asn Ser 💋 Ala Lys Pro Ala Asn Ser Ala Ala Glu Asn Gly Phe

445

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435

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tcc Ser	agc Ser 215	cgc Arg	tgg Trp	acc Thr	gtg Val	ttc Phe 220	cag Gln	tcc Ser	agc Ser	atc Ile	ttc Phe 225	ggc Gly	gcc Ala	ttc Phe	gyg Wal	728
gtc Val 230	tac Tyr	ctc Leu	gtg Val	gtc Val	ctg Leu 235	ctc Leu	tcc Ser	gta Val	gcc Ala	ttc Phe 240	atg Met	tgc Cys	tgg Trp	aac Asn	atg Met 245	776
atg Met	cag Gln	gtg Val	ctc Leu	atg Met 250	aaa Lys	agc Ser	cag Gln	aag Lys	ggc Gly 255	tcg Ser	ctg Leu	gcd Ala	ggg Gly	ggc Gly 260	acg Thr	824
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ccc Pro 310	aag Lys	cac His	gac Asp	tgg Trp	acg Thr 315	agg Arg	tcc Ser	t <i>a</i> c Tyr	ttc Phe	cgg Arg 320	gcg Ala	tac Tyr	atg Met	atc Ile	ctc Leu 325	1016
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aag Lys	to/c Ser	cag Gln	tca Ser 425	Let	g agt i Ser	ctc Leu	gag Glu	tca Ser 430	Leu	ı gaçı ı Glu	g ccc n Pro	aac Asr	tca Ser 435	Gly	gcg Ala	1352

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